

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/05515

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H03F1/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 445 247 B1 (WALKER GORDON KENT) 3 September 2002 (2002-09-03) column 3, line 55 - line 65; figures 1,3 column 10, line 62 -column 11, line 31 column 4, line 60 -column 6, line 25	1-5, 7-11, 13-15,17
X,P	US 6 559 722 B1 (LOPEZ OSVALDO JORGE ET AL) 6 May 2003 (2003-05-06) column 2, line 42 - line 59; figures 1,2 column 4, line 52 -column 5, line 22	1,5,7,9, 11,13, 16,17
X	WO 02/03543 A (MOCHIZUKI MITSURU ;IKEDA YUKIO (JP); JOBA HIROYUKI (JP); MORI KAZU) 10 January 2002 (2002-01-10) figures 6,8,10,11	1,5,7,9, 11,13,17

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

14 April 2004

Date of mailing of the international search report

21/04/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 532 646 A (AIHARA YUKICHI) 2 July 1996 (1996-07-02) column 2, line 5 - line 18; figures 3,7 column 3, line 29 -column 4, line 33 ---	1,5,7,9, 11,13,17
X	EP 0 854 569 A (MATSUSHITA ELECTRIC IND CO LTD) 22 July 1998 (1998-07-22) column 16, line 47 -column 17, line 19; figure 5 ---	1,5,7,9, 11,13,17
X	US 2002/171483 A1 (SUEMATSU NORIHARU ET AL) 21 November 2002 (2002-11-21) the whole document ---	1,7,9,13
X	WO 02/065652 A (SIEMENS AG ;ZOBEC AUGUST (DE)) 22 August 2002 (2002-08-22) page 8, line 33 -page 9, line 25; figure 1 ---	1,7,13
L	EP 1 298 793 A (MITSUBISHI ELECTRIC CORP) 2 April 2003 (2003-04-02) corresponding to Japanese X-doc WO 02/03543 (cited for Information only) paragraph '0010! - paragraph '0011!; figures 6,8,10,11 paragraph '0084! - paragraph '0089! -----	1,5,7,9, 11,13,17

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Information on patent family members

International Application No

PCT/IB 03/05515

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